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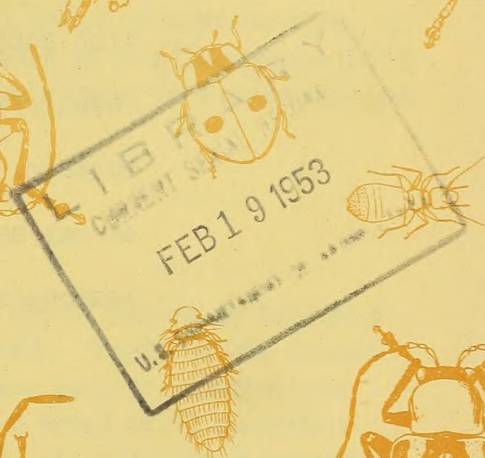
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Cooperative
**ECONOMIC INSECT
REPORT**



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BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

DIVISION OF INSECT DETECTION AND IDENTIFICATION

SECTION OF ECONOMIC INSECT DETECTION AND REPORTING

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Bureau serves as a clearing house and does not assume responsibility for accuracy of the material.

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COOPERATIVE ECONOMIC INSECT REPORT

STATUS OF THE EUROPEAN CORN BORER IN 1952

Survey Data Provided by State Agricultural Agencies

Compiled and Summarized by E. W. Beck

Division of Cereal and Forage Insect Investigations

Agricultural agencies in 28 States reported on surveys to determine abundance of the European corn borer (*Pyrausta nubilalis*) or observations on its distribution, or both, conducted in 1952. Summaries of the surveys, or data to be summarized, were forwarded by the States to the European Corn Borer Research Laboratory at Ankeny, Iowa. This report is a compilation of all information submitted by the State agencies.

Distribution

The European corn borer was known to be present in 37 States in 1951 and no additional States were reported as infested in 1952. Eight of the States near the periphery of the infested area reported new county infestations indicating some further dispersion of the insect. A total of 43 counties were reported as infested for the first time in 1952. In addition 5 counties first observed as infested in 1950 or before but not previously reported, were added to the infested territory. The States reporting these first records were: Kansas 5 counties, Kentucky 9, Montana 2, Nebraska 8, North Carolina 13, North Dakota 2, South Dakota 2, Tennessee 4, and West Virginia 3. The area in the United States known to be infested by the corn borer, including a total of 1,503 counties, is shown on map 1.

The counties reported as first infested in 1952, and those having earlier first records but not reported until 1952, and the State agencies providing the reports, are as follows:

Kansas:

(Agr. Expt. Sta.)

Chase (1950) 1/
Pawnee (1950) 1/
Rice
Rush (1950) 1/
Sherman (1950) 1/

Kentucky:

(Agr. Expt. Sta.)

Ballard

Carlisle

Graves

Harlan

Hickman

Jackson (1948) 1/

Knott

McCracken

Russell

Montana:

(Agr. Expt. Sta.)

Dawson

Prairie

Nebraska:

(Agr. Expt. Sta.)

Box Butte

Cheyenne

Dawes

Garden

Hayes

Perkins

Sheridan

Sioux

North Carolina:

(State Dept. of Agr. and Agr. Expt. Sta.)

Alexander

Ashe

Avery

Buncombe

Clay

Haywood

Jackson

Macon

Mitchell

Pitt

Swain

Watauga

Yancey

North Dakota:

(Agr. Expt. Sta. & Extension Service)

McKenzie

Williams

South Dakota:

(Agr. Expt. Sta.)

Harding

Perkins

West Virginia:

(State Dept. of Agr.)

Cabell

Clay

Tucker

Tennessee:

(State Dept. of Agr.)

Crockett

Gibson

Henry

Lauderdale

1/ Year in which borer was first observed in county.

Abundance

The abundance surveys were conducted after mid-September and therefore measured the fall population of borers. They were made in 25 States and included examinations in 728 counties, or nearly half of all counties known to be infested in the United States. There were minor variations in survey methods among the States, the most common difference being in the number of observations per county.

In Eastern United States the average number of borers per 100 plants was higher in 1952 than in 1951 in 8 of the 12 States reporting. The weighted county average for all States in this area was lower in 1952 than in 1951 because over half the counties surveyed were in the 4 States, New Jersey, Pennsylvania, Vermont and Virginia, that had lower populations in 1952. The heaviest infestation in the East was in southern Delaware.

In the North Central States the over-all average number of borers per 100 plants was only slightly higher in 1952 than in 1951. Although the general level of infestation remained low over much of the area, the data indicated a trend toward higher populations of the borer in 1952 in Illinois, Iowa, Kansas, Kentucky, Minnesota and South Dakota. The heaviest infestation in 1952, much as in 1951, was in adjoining sections of southeastern South Dakota, northwestern Iowa and southwestern Minnesota. Two counties in southern Kentucky had rather high borer populations.

The average number of borers per 100 plants for all comparable counties surveyed in the country showed practically no change in the level of infestation in 1952 compared with 1951.

A summary comparison of the 1951 and 1952 surveys by States is made in Table 1 and the data for both States and counties are given in Table 2. The counties surveyed in 1952 and their approximate levels of infestation are shown on map 2.

Table 1.--Summary by States of European corn borer abundance in corn, fall of 1952, compared with data for 1951.

State	1951		1952		Counties surveyed		
	Number	Average	Number	Average	both years		
	of	number of	of	number of	Number	Borers per	
	counties	borers per	counties	borers per	of	100 plants	
	surveyed	100 plants	surveyed	100 plants	counties	1951	1952
<u>Eastern U. S.</u>							
Connecticut	8	8	8	21	8	8	21
Delaware	3	83	3	134	3	83	134
Maine	10	16	-	-	-	-	-
Maryland	23	66	23	77	23	66	77
Massachusetts	1	0	1	5	1	0	5
New Hampshire	6	32	6	37	5	29	40
New Jersey	19	85	19	67	19	85	67
New York	20	37	11	64	11	48	64
Pennsylvania	42	128	45	57	40	126	60
Rhode Island	3	46	3	73	3	46	73
Vermont	9	6	10	5	9	6	5
Virginia	8	161	8	102	7	183	108
West Virginia	2	21	3	66	2	21	96
Total - - -	154		140		131		
Average 1/ - - -						81	62
<u>N. C. States:</u>							
Illinois	49	36	51	48	48	36	49
Indiana	31	68	30	39	30	72	39
Iowa	99	61	99	91	99	61	91
Kansas	28	36	22	49	21	43	52
Kentucky	12	88	24	180	11	87	176
Michigan	13	18	16	14	11	21	18
Minnesota	81	56	81	89	81	56	89
Missouri	31	37	43	21	28	37	18
Nebraska	47	47	44	29	37	55	29
North Dakota	40	12	41	3	40	12	3
Ohio	27	90	33	55	27	90	50
South Dakota	26	208	44	194	26	208	244
Wisconsin	62	43	60	37	60	38	37
Total - - -	546		561		519		
Average 1/ - - -						58	67
<u>United States</u>							
Total - - -	700		728		650		
Average 1/ - - -						63	66

1/ Weighted on basis of number of counties.

Table 2.--European corn borer abundance in corn, fall of 1952, compared with data for 1951

: Average number :			: Average number :		
: of borers per :			: of borers per :		
: 100 plants :			: 100 plants :		
State and	1951	1952	State and	1951	1952
county			county		
Connecticut			Northeast--		
(Agr. Expt. Sta.)			Boone	7	57
Fairfield	5	12	De Kalb	4	52
Hartford	4	45	Du Page	13	6
Litchfield	2	9	Lake	6	31
Middlesex	9	14	La Salle	21	124
New Haven	12	19	Will	33	104
New London	18	21	Average	14	62
Tolland	11	19			
Windham	7	28			
State mean	8	21			
Delaware			West--		
(Agr. Expt. Sta.)			Admas	46	29
Kent	59	53	Brown	154	9
New Castle	60	25	Hancock	36	9
Sussex	129	325	Henderson	53	47
State mean	83	134	Knox	34	71
			McDonough	68	33
			Average	65	33
Illinois			Central--		
(Agr. Expt. Sta. and			Logan	34	6
Natural History Survey Divn.)			McLean	37	41
			Macon	18	6
			Peoria	56	120
Northwest--			Woodford	55	128
Bureau	15	172	Average	40	60
Jo Daviess	61	104			
Mercer	63	63			
Ogle	55	157	East--		
Whiteside	65	99	Champaign	11	11
Winnebago	33	70	Iroquois	44	80
Average	49	111	Kankakee	43	90
			Livingston	20	123
			Vermilion	3	23
			Average	24	65

Table 2.--(Continued)

: Average number : of borers per State and : 100 plants county : 1951 : 1952			: Average number : of borers per State and : 100 plants county : 1951 : 1952		
West Southwest-- Illinois (Cont.)			Indiana		
Cass	10	9	(Purdue Agr. Expt. Sta.)		
Christian	59	18			
Greene	42	91	Northwest--		
Macoupin	79	37	Lake	202	52
Madison	54	26	La Porte	216	86
Pike	24	18	Porter	102	67
Sangamon	8	7	St. Joseph	358	86
Average	39	29	Starke	89	86
			Average	193	75
East Southeast--			Northeast--		
Clark	4	3	Adams	108	50
Effingham	32	47	Allen	139	12
Jasper	15	28	De Kalb	192	-
Lawrence	23	29	Wells	233	22
Marion	87	29	Whitley	194	25
Moultrie	-	4	Average	173	27
Average	32	23			
Southwest--			North Central--		
Clinton	32	16	Benton	0	21
Jackson	15	27	Cass	16	21
Johnson	-	14	Clinton	55	9
Randolph	19	30	Delaware	14	50
St. Clair	34	19	Tippecanoe	11	11
Union	-	84	Tipton	15	10
Average	25	32	Average	18	20
Southeast--			South Central--		
Edwards-Wabash	18	3	Hancock	19	16
Franklin	35	11	Hendricks	20	12
Jefferson	28	28	Johnson	13	64
Pope	-	-	Parke	12	33
White	16	2	Rush	36	53
Average	24	12	Average	20	36
State mean comparable counties (48)					
	36	49			

Table 2.--(Continued)

: Average number:		: Average number	
: of borers per		: of borers per	
State and	: 100 plants	State and	: 100 plants
county	: 1951 : 1952	county	: 1951 : 1952
Indiana (Continued)		District II--	
Southwest--		Cerro Gordo	11 114
Daviess	24 27	Floyd	25 271
Knox	20 59	Hancock	40 113
Posey	4 0	Kossuth	68 212
Sullivan	16 0	Mitchell	73 119
Vanderburgh	2 6	Winnebago	41 172
Average	13 20	Worth	51 136
		Average	46 161
Southeast--		District III--	
Bartholomew	42 6	Allamakee	28 135
Decatur	66 151	Chickasaw	20 95
Franklin	30 46	Clayton	22 169
Jefferson	58 63	Fayette	35 68
Jennings	36 28	Howard	69 83
Average	46 59	Winneshiek	10 118
		Average	28 111
State mean		District IV--	
comparable		Buena Vista	35 205
counties (30)	72 39	Calhoun	44 58
		Cherokee	36 171
		Ida	60 51
		Plymouth	60 183
		Pocahontas	17 260
		Sac	96 140
		Woodbury	95 160
		Average	54 154
		District V--	
		Butler	15 55
		Franklin	16 78
		Grundy	1 71
		Hamilton	34 100
		Hardin	3 82
		Humboldt	19 170
		Webster	50 83
		Wright	41 72
		Average	24 86
Iowa			
(State Dept. of Agr.,			
and Agr. Expt. Sta.)			
District I--			
Clay	59 355		
Dickinson	137 310		
Emmet	68 256		
Lyon	405 595		
O'Brien	125 419		
Osceola	108 227		
Palo Alto	50 168		
Sioux	232 252		
Average	146 325		

Iowa

(State Dept. of Agr.,
and Agr. Expt. Sta.)

District I--

Clay	59	355
Dickinson	137	310
Emmet	68	256
Lyon	405	595
O'Brien	125	419
Osceola	108	227
Palo Alto	50	168
Sioux	232	252
Average	146	325

Table 2.--(Continued)

: Average number :			: Average number		
: of borers per :			: of borers per		
State and	: 100 plants.		State and	: 100 plants	
county	: 1951	: 1952	county	: 1951	: 1952
Iowa (Continued)			Iowa (Continued)		
District VI--			District IX--		
Black Hawk	6	22	Benton	5	24
Bremer	29	86	Cedar	12	44
Buchanan	22	38	Iowa	56	75
Clinton	29	46	Johnson	17	70
Delaware	32	37	Keokuk	21	26
Dubuque	48	50	Louisa	10	47
Jackson	22	30	Muscatine	19	88
Jones	52	40	Scott	5	51
Linn	17	37	Washington	27	8
Average	27	41	Average	17	48
District VII--			District X--		
Audubon	154	79	Adair	154	88
Carroll	108	74	Adams	54	59
Crawford	225	82	Cass	136	69
Greene	167	100	Fremont	209	22
Guthrie	101	73	Mills	85	23
Harrison	283	48	Montgomery	217	158
Monona	100	49	Page	134	70
Shelby	108	73	Pottawattamie	103	58
Average	154	72	Taylor	26	39
District VIII--			District XI--		
Boone	92	123	Appanoose	27	19
Dallas	284	47	Clarke	79	11
Jasper	53	87	Decatur	87	75
Marshall	89	135	Lucas	67	50
Polk	131	53	Madison	211	50
Powashiek	27	69	Mahaska	18	23
Story	19	60	Marion	12	5
Tama	34	96	Monroe	16	49
Average	81	97	Ringgold	26	83
			Union	75	43
			Warren	266	74
			Wayne	40	59
			Average	86	43

Table 2.--(Continued)

State and county	: Average number : : of borers per : 100 plants		State and county	: Average number : : of borers per : 100 plants	
	: 1951	: 1952		: 1951	: 1952
<u>Iowa (Continued)</u>			<u>Kansas (Continued)</u>		
District XII--			Central--		
Davis	15	23	Dickinson	25	-
Des Moines	29	10			
Jefferson	23	18	East Central--		
Henry	22	22	Douglas	53	102
Lee	42	14	Franklin	14	-
Van Buren	64	17	Geary	18	-
Wapello	13	26	Johnson	27	116
Average	29	19	Lyon	5	-
			Miami	27	-
State mean comparable counties (99)	61	91	Osage	2	-
			Shawnee	10	102
			Wabaunsee	7	28
			Average	18	87
<u>Kansas</u>			State mean comparable counties (21)43		
(Agr. Expt. Sta.)			52		
North Central--			Kentucky		
Clay	25	43	(Agr. Expt. Sta.)		
Cloud	18	31	North Central--		
Jewell	16	32	Jefferson	95	199
Mitchell	22	-	Nelson	-	166
Osborne	17	9	Shelby	-	149
Phillips	-	0	Woodford	106	-
Republic	20	17	Average	100	171
Smith	33	1			
Washington	20	22	Central--		
Average	21	19	Bourbon	80	155
			Boyle	32	280
Northeast--			Clark	-	113
Atchison	84	63	Fayette	58	75
Brown	100	10	Jessamine	22	127
Doniphan	168	41	Madison	-	70
Jackson	66	22	Mercer	337	291
Jefferson	98	134	Scott	68	122
Leavenworth	66	125	Average	100	153
Marshall	29	30			
Nemaha	9	27			
Pottawatomie	24	106			
Riley	18	27			
Average	66	58			

Table 2.--(Continued)

State and county	: Average number : of borers per : 100 plants		State and county	: Average number : of borers per : 100 plants	
	: 1951	: 1952		: 1951	: 1952
Michigan (Extension Service)			Minnesota (State Dept. of Agr.)		
Southwest--			Northwest--		
Cass	2	32	Becker	93	17
			Clay	42	8
South Central--			Clearwater	15	Tr*
Branch	-	8	Kittson	0	Tr*
Calhoun	10	15	Mahnomen	48	10
Clinton	82	25	Marshall	5	8
Eaton	10	10	Norman	22	14
Ingham	16	23	Pennington	5	Tr*
Jackson	22	9	Polk	11	1
St. Joseph	19	12	Red Lake	3	2
Shiawassee	26	12	Average	24	6
Average	26	14			
Southeast--			North Central--		
Genesee	4	36	Beltrami	5	7
Lapeer	4	-	Cass	2	7
Lenawee	-	5	Hubbard	4	10
Livingston	-	3	Itasca	5	Tr*
Macomb	-	4	Average	4	6
Monroe	25	12			
Oakland	-	8	West Central--		
St. Clair	4	-	Big Stone	20	116
Washtenaw	14	15	Chippewa	107	255
Average	10	12	Douglas	93	72
			Grant	46	84
State mean			Lac qui Parle	70	183
comparable			Otter Tail	131	55
counties (11)	21	18	Pope	64	106
			Stevens	101	91
			Swift	86	119
			Traverse	174	135
			Wilkin	106	74
			Yellow Med.	126	135
			Average	94	119

* Trace -- Less than one.

Table 2. --(Continued)

		: Average no.				: Average no.	
		: of borers per				: of borers per	
State and		: 100 plants		: State and		: 100 plants	
county		: 1951 : 1952		: county		: 1951 : 1952	
Minnesota (Cont'd)				Minnesota (Cont'd)			
Central --				S. W. (cont'd)			
Benton	22	45		Murray	231	126	
Carver	49	136		Nobles	141	279	
Kandiyochi	18	58		Pipestone	126	116	
McLeod	50	124		Redwood	80	171	
Meeker	54	51		Rock	99	310	
Morrison	27	80		Average	134	165	
Renville	51	261		South Central--			
Scott	67	90		Blue Earth	30	109	
Sherburne	7	74		Brown	141	93	
Sibley	32	138		Faribault	72	155	
Stearns	34	156		Freeborn	28	38	
Todd	25	78		Le Sueur	43	105	
Wadena	7	4		Martin	76	93	
Wright	53	104		Nicollet	93	162	
Average	35	98		Rice	33	90	
East Central--				Steele	37	78	
Aitkin	11	6		Waseca	34	150	
Anoka	65	58		Watonwan	133	154	
Carlton	5	Tr		Average	35	112	
Chisago	32	49		Southeast--			
Crow Wing	11	25		Dakota	75	154	
Hennepin	30	71		Dodge	39	82	
Isanti	10	32		Fillmore	71	146	
Kanabec	30	21		Goodhue	133	85	
Mille Lacs	18	10		Houston	16	185	
Pine	12	14		Mower	73	205	
Ramsey	42	39		Olmsted	32	84	
Washington	73	66		Wabasha	51	115	
Average	28	33		Winona	27	126	
Southwest--				Average	60	131	
Cottonwood	47	185		State mean			
Jackson	160	117		comparable			
Lincoln	80	90		counties (81)			
Lyon	246	93			66	89	

Table 2--(Continued)

		: Average no.				: Average no.	
		: of borers per				: of borers per	
State and		: 100 plants		State and		: 100 plants	
county		: 1951 : 1952		county		: 1951 : 1952	
Missouri				Missouri (Cont'd)			
(Agr. Exp. Sta.)				Northeast (cont'd)			
Northwest--				Ralls 12 20			
Andrew 73 9				Scotland 23 28			
Atchison 138 26				Shelby 18 3			
Buchanan 71 26				Average 28 10			
Caldwell - 13				Central--			
Clay - 50				Boone 29 43			
Clinton - 9				Callaway 24 35			
Davies 28 27				Howard - 78			
De Kalb 16 9				Lafayette - 16			
Gentry 23 16				Pettis - 30			
Harrison 37 26				Saline - 36			
Holt 42 3				Average 27 40			
Nodaway 49 12				East--			
Platte 18 40				Franklin - 1			
Ray - 18				Lincoln 75 9			
Worth 42 15				Montgomery 68 14			
Average 49 20				St. Charles 18 10			
North Central--				Warren 8 7			
Carroll - 54				Average 42 8			
Chariton - 17				State mean			
Grundy 16 62				comparable			
Linn - 11				counties (28) 37 18			
Livingston - 44				Nebraska			
Macon 93 -				(Agr. Expt. Sta.)			
Mercer 2 18				Northeast--			
Putnam - 10				Antelope 51 60			
Randolph 36 -				Burt 63 88			
Sullivan - 10				Cedar 48 73			
Average 37 28				Cuming 166 20			
Northeast--				Dakota 67 106			
Audrain 40 5				Dixon 56 75			
Clark 9 6				Knox - 114			
Knox 12 -				Madison 157 60			
Lewis 54 14				Pierce 112 89			
Marion 69 1				Stanton 45 21			
Monroe 26 10				Thurston 52 61			
Pike 18 4				Wayne 35 51			
				Average 77 68			

Table 2 --(Continued)

		: Average no.	:			: Average no.
		: of borers per	:			: of borers per
State and		: 100 plants		State and		: 100 plants
county		: 1951 : 1952	:	county		: 1951 : 1952
Nebraska (Cont'd)				Nebraska (Cont'd)		
Central--				Southeast--		
Buffalo	46	1		Clay	24	-
Custer	7	4		Fillmore	26	1
Greeley	-	47		Gage	5	-
Hall	101	5		Johnson	21	11
Howard	40	22		Nemaha	-	7
Sherman	114	23		Nuckolls	-	2
Valley	53	5		Otoe	-	15
Average	60	15		Pawnee	-	12
East Central--				Richardson	11	12
Butler	32	15		Saline	9	1
Cass	40	27		Thayer	40	-
Colfax	105	14		Average	19	8
Dodge	85	42		State mean		
Douglas	46	70		comparable		
Hamilton	16	1		counties (37)	55	29
Lancaster	15	10				
Merrick	60	5		New Hampshire		
Nance	78	23		(State Dept. of Agr.)		
Platte	89	14		Belknap	40	23
Sarpy	-	24		Carroll	9	39
Saunders	15	47		Grafton	-	21
Seward	10	1		Hillsboro	34	47
Washington	92	-		Merrimack	24	63
York	35	2		Rockingham	37	27
Average	51	21		Strafford	46	-
Southwest--				State mean		
Hayes	0	-		comparable		
Hitchcock	0	-		counties (5)	29	40
Lincoln	0	-				
Red Willow	0	-				
Average	0	-				
South Central--						
Adams	24	3				
Franklin	42	1				
Furnas	0	-				
Kearney	17	-				
Webster	60	4				
Average	28	3				

Table 2--(Continued)

State and county	: Average no. : of borers per : 100 plants		State and county	: Average no. : of borers per : 100 plants	
	: 1951	: 1952		: 1951	: 1952
New Jersey			New York (Cont'd)		
(State Dept. of Agr.)			Saratoga 20 -		
Atlantic	68	58	Schenectady	35	-
Bergen	58	94	Suffolk	177	294
Burlington	161	105	Ulster	16	-
Camden	433	60	Wayne	10	10
Cape May	88	75	State mean		
Cumberland	118	98	comparable		
Essex-Union	62	59	counties (11)	48	64
Gloucester	185	97			
Hunterdon	13	99	North Dakota		
Mercer	29	87	(Agr. Expt. Sta.)		
Middlesex	115	61	Adams	Tr	Tr
Monmouth	36	22	Barnes	27	2
Morris	6	39	Benson	Tr	Tr
Ocean	50	54	Bottineau	Tr	Tr
Passaic	91	82	Burleigh	4	Tr
Salem	44	71	Cass	63	30
Somerset	29	60	Cavalier	1	Tr
Sussex	25	16	Dickey	23	6
Warren	4	29	Eddy	1	Tr
State mean			Emmons	Tr	Tr
comparable			Foster	1	6
counties (19)	85	67	Grand Forks	26	3
			Griggs	4	Tr
			Kidder	8	2
			La Moure	16	Tr
			Logan	5	Tr
			McHenry	Tr	Tr
			McIntosh	Tr	Tr
			McLean	Tr	Tr
			Mercer	Tr	Tr
			Morton	8	12
			Nelson	2	Tr
			Oliver	Tr	Tr
			Pembina	7	Tr
			Pierce	Tr	Tr
			Ramsey	5	Tr
			Ransom	45	3
			Renville	3	Tr
			Richland	101	11
			Sargent	31	17
New York					
(Agr. Expt. Stat., Geneva)					
Albany	27	-			
Columbia	26	-			
Dutchess	51	-			
Erie	3	43			
Greene	13	-			
Livingston	19	14			
Monroe	10	29			
Nassau	200	228			
Niagara	80	20			
Oneida	7	21			
Onondaga	18	33			
Ontario	8	7			
Orange	16	-			
Orleans	Tr	3			
Rensselaer	12	-			

Table 2--(Continued)

		: Average no. :				: Average no. :	
		: of borers per :				: of borers per :	
State and		: 100 plants :		State and		: 100 plants :	
county		1951	1952	county		1951	1952
<u>North Dakota (Cont'd)</u>				<u>Ohio (Cont'd)</u>			
Sheridan	Tr	1		<u>West Central (cont'd)</u>			
Sioux	Tr	Tr		Shelby	142	45	
Stark	4	Tr		Average	96	52	
Steele	3	3		<u>Central--</u>			
Stutsman	20	5		Fayette	76	9	
Towner	1	Tr		Franklin	-	22	
Traill	34	2		Madison	24	19	
Walsh	14	Tr		Pickaway	63	60	
Ward	Tr	8		Average	54	28	
Wells	10	Tr		<u>East Central--</u>			
Williams	-	3		Coshocton	-	51	
State mean				<u>Southwest--</u>			
comparable				Butler	273	110	
counties (40)	12	3		Clinton	115	69	
				Greene	161	73	
<u>Ohio</u>				Highland	120	80	
(Agr. Exp. Sta. & Ext. Serv.)				Montgomery	190	109	
<u>Northwest--</u>				Preble	129	42	
Allen	61	11		Warren	-	62	
Fulton	57	29		Average	165	78	
Hancock	41	28		<u>Southeast--</u>			
Henry	56	51		Muskingum	-	177	
Lucas	46	22		State mean			
Ottawa	37	27		comparable			
Paulding	62	40		counties (27)	90	50	
Putnam	41	69					
Van Wert	68	28		<u>Pennsylvania</u>			
Williams	43	55		(State Dept. of Agr. & Ext. Serv.)			
Wood	82	64		<u>Northwest--</u>			
Average	54	38		Crawford	52	7	
<u>Northeast--</u>				Erie	20	17	
Stark	-	122		Forest	152	-	
Wayne	-	33		Mercer	36	10	
Average		78		Venango	117	40	
<u>West Cenral--</u>				Average	75	18	
Auglaize	30	31		<u>North--</u>			
Champaign	127	54		Clinton	120	4	
Clark	48	91		Lycoming	153	-	
Darke	139	32		Sullivan	-	23	
Mercer	105	29		Tioga	24	28	
Miami	83	80		Average	99	18	

Table 2--(Continued)

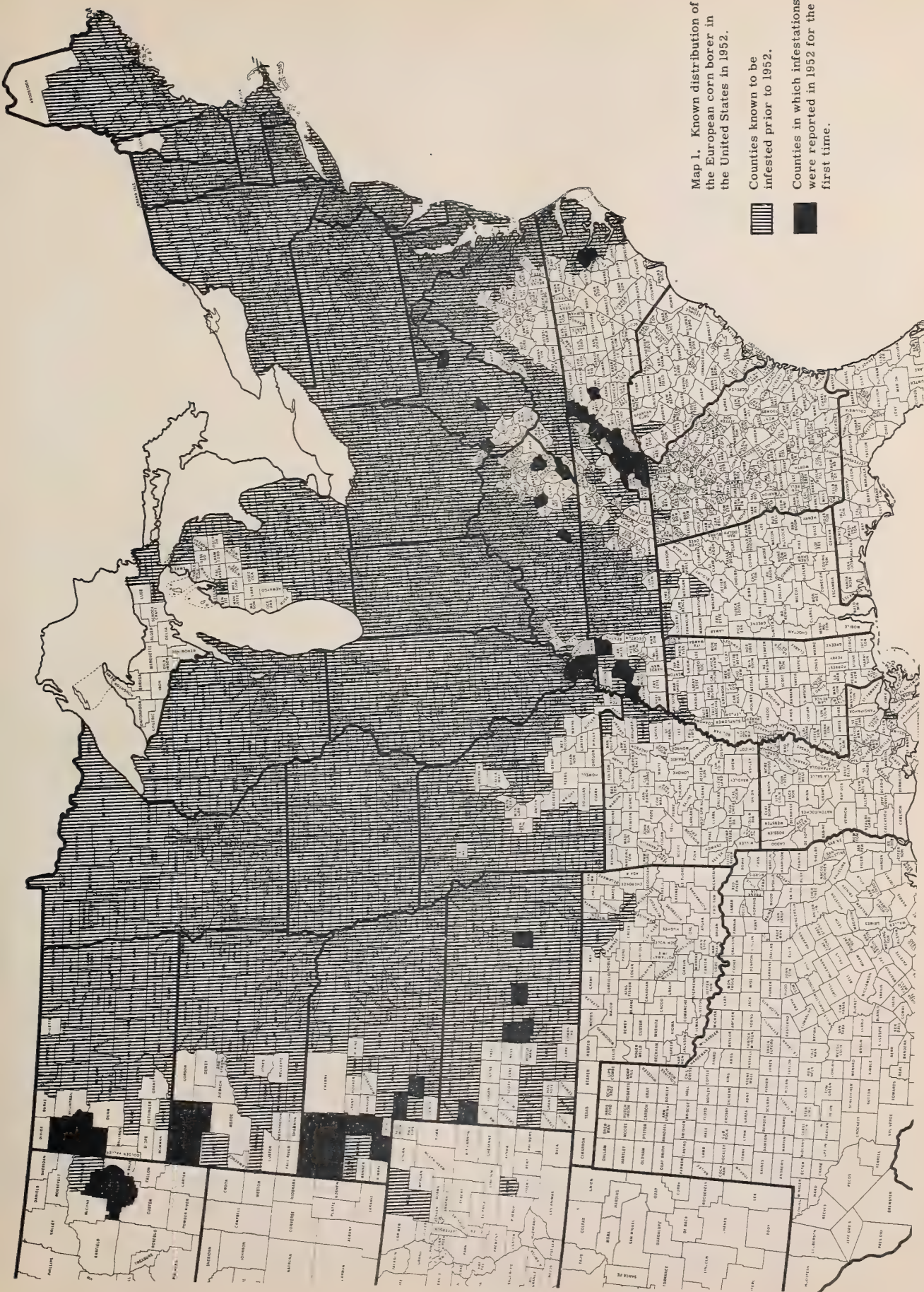
		: Average no.				: Average no.	
		: of borers per				: of borers per	
State and		: 100 plants		: State and		: 100 plants	
county		: 1951 : 1952		: county		: 1951 : 1952	
Pennsylvania (Cont'd)				Southeast--			
West--				Berks 94 143			
Armstrong - 11				Bucks 368 251			
Butler 102 41				Chester 213 109			
Indiana 103 64				Delaware 174 172			
Jefferson 78 30				Lancaster 217 76			
Lawrence 78 36				Lebanon 27 20			
Average 94 36				Montgomery 385 290			
Central--				Average 211 152			
Blair 127 71				State mean			
Cambria 395 27				comparable			
Columbia - 50				counties (40) 126 60			
Dauphin 116 35							
Huntingdon 43 1				Rhode Island			
Juniata 54 29				(State Dept. of Agr.			
Mifflin 105 66				and Conservation)			
Northumberland 50 40				Kent 37 71			
Perry 48 12				Providence 51 82			
Snyder 37 3				Washington 51 66			
Union 32 2							
Average 101 30				State mean			
East--				comparable			
Lehigh 68 60				counties (3) 46 73			
Luzerne 6 9							
Northampton 39 27				South Dakota			
Schuylkill - 38				(Agr. Expt. Sta.)			
Average 38 34				North Central--			
Southwest--				Brown 188 174			
Fayette 237 92				Edmunds - 73			
Greene 334 65				Faulk - 72			
Somerset 229 69				Potter - 70			
Washington 153 71				Spink 121 172			
Westmoreland 228 86				Average 154 112			
Average 236 77							
South--							
Adams 67 34							
Bedford 96 45							
Cumberland 46 16							
Franklin 127 30							
Fulton 25 1							
York 263 199							
Average 104 54							

Table 2.--(Continued)

State and county	: Average number : : of borers per : : 100 plants		State and county	: Average number : : of borers per : : 100 plants	
	: 1951	: 1952		: 1951	: 1952
South Dakota			Lyman	-	28
Northeast--			Tripp	-	53
Clark	88	31	Average		125
Codington	48	63	Southeast--		
Day	83	89	Bon Homme	297	700
Deuel	43	161	Clay	472	284
Grant	133	235	Hutchinson	298	461
Hamlin	166	53	Lincoln	541	327
Marshall	353	99	Turner	324	420
Roberts	160	118	Union	200	356
Average	134	106	Yankton	280	197
Central--			Average	344	392
Buffalo	-	65	State mean		
Hand	-	71	comparable		
Hughes	-	94	counties(26)	208	244
Hyde	-	75			
Jerauld	-	253	Vermont		
Sully	-	74	(State Dept. of Agr.)		
Average	-	105	Addison	-	3
East Central--			Bennington	10	8
Beadle	107	64	Chittenden	4	3
Brookings	364	585	Franklin	3	2
Davison	-	350	Grand Isle	2	4
Hanson	85	349	Orange	3	4
Kingsbury	127	141	Rutland	5	4
Lake	170	216	Washington	9	3
McCook	124	186	Windham	8	10
Miner	59	143	Windsor	8	7
Minnehaha	270	584	State mean		
Moody	299	136	comparable		
Sanborn	-	124	counties(9)	6	5
Average	178	262			
South Central--			Virginia		
Aurora	-	186	(Agr. Expt. Sta.)		
Brule	-	55	Albemarle	8	-
Charles Mix	-	305	Augusta	229	143
Douglas	-	166	Clarke	195	50
Gregory	-	81			

Table 2.--(Continued)

State and county	Average number of borers per 100 plants		State and county	Average number of borers per 100 plants	
	1951	1952		1951	1952
Winnebago	37	31			
Wood	1	24			
Average	25	37			
Southwest--					
Crawford	32	80			
Grant	46	92			
Iowa	62	26			
Lafayette	16	44			
Richland	34	34			
Sauk	35	39			
Average	38	55			
South Central--					
Columbia	39	11			
Dane	25	46			
Dodge	34	17			
Green	37	70			
Jefferson	63	15			
Rock	26	40			
Walworth	35	26			
Average	36	35			
Southeast--					
Kenosha	41	27			
Ozaukee	64	22			
Racine	81	20			
Sheboygan	42	8			
Washington	94	14			
Waukesha	72	28			
Average	65	20			
State mean					
comparable					
counties (60)	38	37			



Map 1. Known distribution of the European corn borer in the United States in 1952.

Counties known to be infested prior to 1952.

Counties in which infestations were reported in 1952 for the first time.

